

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 19, 2003, 14:27:18 ; Search time 247 Seconds
(without alignments)
218.578 Million cell updates/sec

Title: US-09-758-881-115

Perfect score: 20

Sequence: 1 gctccagcatctgctcttc 20

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 2101872

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_19Jun03:*

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2: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
3: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
4: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*
5: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
6: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*
7: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*
8: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT:*
9: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT:*
10: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1989.DAT:*
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21: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
22: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
23: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*
25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	20	100.0	20	21	AAC93264
2	20	100.0	20	24	AAS96881
3	18.4	92.0	20	21	AAC93236
4	18.4	92.0	20	24	AAS96853
5	18	90.0	20	21	AAC93172
6	18	90.0	20	24	AAS96789
7	15.2	76.0	21	19	AA226192
8	15.2	76.0	24	14	AAQ48649

C	9	15.2	76.0	24	25	ABX89728
C	10	14.8	74.0	19	24	ABH88070
C	11	14.8	74.0	21	19	AA226191
C	12	14.2	71.0	20	25	AB58513
C	13	14.2	71.0	20	25	AA234203
C	14	14.2	71.0	24	21	AAC78819
C	15	14.2	71.0	24	25	ABX92575
C	16	14.2	71.0	25	22	AA799336
C	17	14.2	71.0	25	25	ABT33462
C	18	14.2	71.0	26	24	ABA9704
C	19	14.2	71.0	30	19	AAV21292
C	20	13.8	69.0	20	24	ABK91026
C	21	13.8	69.0	20	24	ABK14463
C	22	13.8	69.0	20	25	AB277623
C	23	13.8	69.0	21	18	AAV01324
C	24	13.8	69.0	21	19	AA226190
C	25	13.8	69.0	23	14	AAQ37438
C	26	13.8	69.0	24	20	AA218125
C	27	13.6	68.0	22	21	AAA64532
C	28	13.6	68.0	24	19	AAV42614
C	29	13.6	68.0	24	24	AA226190
C	30	13.6	68.0	26	21	AA97055
C	31	13.6	68.0	27	24	AA231720
C	32	13.6	68.0	30	20	AA243461
C	33	13.4	67.0	20	22	AA292583
C	34	13.4	67.0	20	24	ABK99820
C	35	13.4	67.0	20	24	ABK99821
C	36	13.4	67.0	22	23	ABK52194
C	37	13.4	67.0	23	18	AA785350
C	38	13.2	66.0	20	18	AA769656
C	39	13.2	66.0	20	18	AA769656
C	40	13.2	66.0	20	19	AAV62303
C	41	13.2	66.0	20	19	AAV62395
C	42	13.2	66.0	20	20	AA238689
C	43	13.2	66.0	20	22	AAK95232
C	44	13.2	66.0	20	22	AA758473
C	45	13.2	66.0	20	24	AB195396

ALIGNMENTS

RESULT 1	
AAC93264	
ID AAC93264 standard; DNA; 20 BP.	
XX	
AC AAC93264;	
XX	
DT 15-FEB-2001 (first entry)	
XX	
DE Human STAT3 phosphorothioate antisense oligonucleotide seq ID NO:115.	
XX	
DE Human, mouse, STAT3, phosphorothioate; antisense oligonucleotide;	
KW modulation; signal transducer and activator of transcription;	
KW DNA-binding protein; signal transduction; inhibition; apoptosis;	
KW inflammatory disease; cancer; antineoplastic; antineoplastic;	
KW cytostatic; immunostimulatory; rheumatoid arthritis; leukemia;	
KW myeloma; melanoma; lymphoma; diagnosis; ss.	
XX	
OS Homo sapiens.	
XX	
PN W0200061602-A1.	
XX	
PD 19-OCT-2000.	
XX	
FF U6-APR-2000; 2000MO-US09054.	
XX	
PR 08-APR-1999, 99US 0288461.	
XX	
PA (ISIS-) ISIS PHARM INC.	
XX	
PI Human STAT3 antisense Human polymorphic Human STAT3 antisense Human polymorphic Control mRNA prepr	
XX	

Interleukin 2, 15 s
Caenorhabditis ele
Human polymorphic
Silkworm spider dr
Human PRO65 PCR r
Human PRO541 rever
Human pPO DNA PCR
PCR primer used to
NOV probe SEQ ID N
M. cerevisiae 16S
Mus musculus 1-mia
Real time PCR prim
Human insulin anti
PCR primer used to
Insulin PCR primer
Human polymorphic
Primer VHA. Syn
Primer for homeob
PCR primer G2 used
PCR primer used to
Human ceramidase c
PCR primer G5-11 f
Human tumour suppr
ATP-phosphoribosyl
Human nucleolin ph
Mouse RAIDD antis
Mouse RAIDD antis
Calothrix p2 PCR p
Spider silk protei
Tumour suppressor
Tumour suppressor
ING1 gene PCR prim
ING1 gene PCR prim
Nucleotide sequenc
Human cDNA clone-s
rPOA gene PCR prim
Capture oligonucle

DOI: 10.1002/2000-619223/59.

PT New anisense compound for inhibiting the expression of signal transducer and activator of transcription 3 (STAT3) in cells or tissues PT and treating diseases or condition associated with STAT3, such as PT rheumatoid arthritis and cancer *

PS Example 12; Page 63; 104pp; English.

The present invention describes an antisense compound (I), 8 to 30 nucleobases in length, that is targeted to a nucleic acid molecule encoding STAT3 (Signal Transducer and Activator of Transcription) and which inhibits the expression of it. (I) has anti-inflammatory, antitumoural, cytostatic and immunostimulatory activities. (I) is used for inhibiting the expression of STAT3 in cells or tissues, treating an animal having a disease or condition associated with STAT3 or a human having a disease or condition characterised by a reduction in apoptosis, and inducing apoptosis in a cell. Diseases or conditions that are treated are rheumatoid arthritis, cancer of the breast, prostate, brain, head and/or neck, leukaemia, myeloma, melanoma or lymphoma. (I) can also be used for diagnostic methods in detecting and determining the role of STAT3 in various cell functions, physiological processes and conditions and for diagnosing the conditions associated with expression of STAT3. (I) can be used alone or with other drugs as an immunostimulator. (I) is used in sandwich and colourimetric assays, involving enzyme conjugation and radiolabelling and is used in diagnostic kits. AAC93150 encodes human STAT3 and AAC93231 encodes mouse STAT3 as given in the exemplification of the present invention. AAC933151 to AAC933230 and AAC93332 to AAC933299 represent STAT3 phosphorothioate antisense oligonucleotides, and AAC933300 represents a mismatch control oligonucleotide which are used in example from the present invention.

50 Sequence 20 BP, 2 A, 8 C, 4 G, 6 T, 0 other;

Query Match	100.08;	Score 20;	DB 21;	Length 20;
Post Local Similarity	100.08	and us-	35	

Matches	20;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
---------	-----	--------------	----	------------	----	--------	----	------	----

Qy	1	GCTCAGCATCTGCTGCTTC	20
Dh	1	GCTCAGCATCTGCTGCTTC	20

RR:SUI,T 2
AAS96881

AC AAS96881

26 FEB-2002 (first entry)

Human STAT3 antisense phosphorothioate oligodeoxynucleotide #88.

KM antiT3; human; signal transducer and activator of transcription; ss; STAT
KM antisense gene therapy; fas-mediated apoptosis; inflammatory disease;
KM autoimmune disease; rheumatoid arthritis; cancer; breast; prostate; head
KM neck; brain; leukemia; myeloma; melanoma; lymphoma; apoptosis
KM antiinflammatory; immunosuppressive; antiinflammatory; antiarthritic;
KM cytosolic.

OS	Homo sapiens.
OS	Synthetic.

PN US2001029250-A1.

PI) 11-OCT-2001.

PF 11-JAN-2001; 2001US-0758881.

PR 08-APR-1999; 99US-0288461.
PR 06-APR-2000; 2000WO-US09054.

12A (KARR/) KARRAS J C.

XX Karas JG;
PI

DR WPI; 2002-009991/01.

PT Novel antisense compound useful for treating and diagnosing
PT inflammatory diseases and cancers, is targeted to a nucleic acid
PT molecule encoding signal transducer and activator of transcription
PT proteins -
PT

Example 12, Page 18, 21pp, English.

CC The invention relates to antisense compounds targeted to a nucleic acid
CC molecule encoding a signal transducer and activator of transcription
CC (STAT) protein, specifically STAT3, where the antisense compounds inhibit
CC the expression of STAT3. The antisense sequences are useful for
CC inhibiting the expression of STAT3 in cells or tissues, inducing
CC Fas-mediated apoptosis in cells, and sensitising cells to apoptosis. They
CC are also useful for treating an animal having a disease or condition
CC associated with STAT3. These disorders include inflammatory or autoimmune
CC disease, particularly rheumatoid arthritis, cancers, such as those of the
CC breast, prostate, brain and head and neck and leukaemias, myelomas,
CC melanomas and lymphomas. Also treatable are human diseases or conditions
CC characterised by a reduction in apoptosis or an insensitivity to
CC apoptotic signals. The sequences of the invention can be used in clinical
CC research, for detecting and determining the role of STAT3 in various cell
CC functions and physiological processes and for diagnosing conditions
CC associated with the expression of STAT3. The sequences represent cDNA
CC encoding human STAT3 and human STAT3 oligonucleotides

50 Sequence 20 BP; 2 A; 8 C; 4 G; 6 T; 0 other;

query Match	Score	DB	Length
100.08;	20;	24;	20;
Post Local similarity	35;		

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY	1	GCTCCAGCATCTGCTGCTTC	20
Db	1	GCTCCAGCATCTGCTGCTTC	20

RESULT 3
AAC93236
ID AAC93236 standard; DNA; 20 BP

AC AAC93236;

DT 15-FEB-2001 (first entry)

Mouse STAT3 phosphorothioate antisense oligonucleotide SEQ ID NO:87

KM Human;mouse; STAT3; phosphorohistidate; antisense oligonucleotide
KM modulation; signal transducer and activator of transcription;
KM DNA-binding protein; signal transduction; inhibition; apoptosis;
KM inflammatory disease, cancer, antinflammatory, antihematic;
KM cytosolatic; immunostimulatory; rheumatoid arthritis; leukaemia;
KM myeloma, melanoma, lymphoma, diagnosis, ss.

OS Mus musculus.

PN WO2000061602-A1

PD 19-OCT-2000

06-APR-2000; 2000WO-US09054

PR 08-APR-1999; 99US-0288461

PA (ISIS-) ISIS PHARM INC.

PI Karas JG;
v v

DR WPI; 2000-619223/59.

XX New antisense compound for inhibiting the expression of signal
PT transducer and activator of transcription 3 (STAT3) in cells or tissues
PT and treating diseases or condition associated with STAT3, such as
PT rheumatoid arthritis and cancer -

PS Example 3; Page 54; 104pp; English.

XX The present invention describes an antisense compound (I), 8 to 30
CC nucleobases in length, that is targeted to a nucleic acid molecule
CC encoding STAT3 (Signal Transducer and Activator of Transcription) and
CC which inhibits the expression of it. (I) has antiinflammatory,
CC antitumoral, cytostatic and immunostimulatory activities. (I) is used
CC for inhibiting the expression of STAT3 in cells or tissues, treating
CC an animal having a disease or condition associated with STAT3 or a
CC human having a disease or condition characterised by a reduction in
CC apoptosis, and inducing apoptosis in a cell. Diseases or conditions
CC that are treated are rheumatoid arthritis, cancer of the breast,
CC prostate, brain, head and/or neck, leukaemia, myeloma, melanoma or
CC lymphoma. (I) can also be used for diagnostic methods in detecting and
CC determining the role of STAT3 in various cell functions, physiological
CC processes and conditions and for diagnosing the conditions associated
CC with expression of STAT3. (I) can be used alone or with other drugs as
CC an immunostimulant. (I) is used in sandwich and colourimetric assays,
CC involving enzyme conjugation and radiolabeling and is used in
CC diagnostic kits. AAC93150 encodes human STAT3 and AAC93231 encodes mouse
CC STAT3 as given in the exemplification of the present invention. AAC93151
CC to AAC93330 and AAC93232 to AAC93299 represent STAT3 phosphorothioate
CC antisense oligonucleotides, and AAC93300 represents a mismatch control
CC oligonucleotide which are used in example from the present invention.

XX Sequence 20 BP, 3 A, 8 C, 3 G, 6 T, 0 other.

Query Match 92.0%; Score 18.4; DB 21; Length 20;
Best Local Similarity 95.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTCCAGCATCTGCTGCTTC 20
||||| |||||||||
DB 1 GCTCCACACATCTGCTGCTTC 20

RESULT 4

AAS96853 ID AAS96853 standard; DNA; 20 BP.

XX AAS96853;

DT 26-FEB-2002 (first entry)

DE Mouse STAT3 antisense phosphorothioate oligodeoxynucleotide #5.

XX STAT3, mouse; signal transducer and activator of transcription; ss; STAT;
KW antisense gene therapy; Fas-mediated apoptosis; inflammatory disease;
KW autoimmune disease; rheumatoid arthritis; cancer; breast; prostate; head;
KW neck; brain; leukaemia; myeloma; melanoma; lymphoma; apoptosis;
KW antiinflammatory; immunosuppressive; antitumoral; antiarthritic;
KW cytosolic.

OS Mus musculus

XX Synthetic.

PN US2001029250-A1.

PD 11-OCT-2001.

PF 11-JAN-2001; 2001US-0758881.

PR 08-APR-1999; 99US-0288461.

XX 06-APR-2000; 2000WO-US09054.

PA (KARRAS) KARRAS J G

XX

PI Karras JG;

XX WPI; 2002-009991/01.

XX Novel antisense compound useful for treating and diagnosing
PT inflammatory diseases and cancers, is targeted to a nucleic acid
PT molecule encoding signal transducer and activator of transcription
PT proteins -

PS Example 3; Page 15; 21pp; English.

XX The invention relates to antisense compounds targeted to a nucleic acid
CC molecule encoding a signal transducer and activator of transcription
CC (STAT) protein, specifically STAT3, where the antisense compounds inhibit
CC the expression of STAT3. The antisense sequences are useful for
CC inhibiting the expression of STAT3 in cells or tissues, inducing
CC Fas-mediated apoptosis in cells, and sensitizing cells to apoptosis. They
CC are also useful for treating an animal having a disease or condition
CC associated with STAT3. These disorders include inflammatory or autoimmune
CC disease, particularly rheumatoid arthritis, cancers, such as those of the
CC breast, prostate, brain and head and neck and leukemias, myelomas,
CC melanomas and lymphomas. Also treatable are human diseases or conditions
CC characterised by a reduction in apoptosis or an insensitivity to
CC apoptotic signals. The sequences of the invention can be used in clinical
CC research, for detecting and determining the role of STAT3 in various cell
CC functions and physiological processes and for diagnosing conditions
CC associated with the expression of STAT3. The sequences represent cDNA
CC encoding mouse STAT3 and mouse STAT3 oligonucleotides.

XX Sequence 20 BP, 3 A, 8 C, 3 G, 6 T, 0 other.

Query Match 92.0%; Score 18.4; DB 24; Length 20;
Best Local Similarity 95.0%; Pred. No. 1.6e+02;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTCCAGCATCTGCTGCTTC 20
||||| |||||||||
DB 1 GCTCCACACATCTGCTGCTTC 20

RESULT 5

AAC93172 ID AAC93172 standard; DNA; 20 BP.

XX AAC93172;

DT 15-FEB-2001 (first entry)

DE Human STAT3 phosphorothioate antisense oligonucleotide SEQ ID NO:23.

XX Human; mouse; STAT3; phosphorothioate; antisense oligonucleotide;
KW modulation; signal transducer and activator of transcription;
KW DNA-binding protein; signal transduction; inhibition; apoptosis;
KW inflammatory disease; cancer; antiinflammatory; antitumoral;
KW cytosolic; immunostimulatory; rheumatoid arthritis; leukaemia;
KW myeloma; melanoma; lymphoma; diagnosis; ss.

OS Homo sapiens.

PN WO200061602-A1.

PD 19-OCT-2000.

PF 06-APR-2000; 2000WO-US09054.

PR 08-APR-1999; 99US-0288461.

PA (ISIS-) ISIS PHARM INC.

PI Karras JG;

XX WPI; 2000-619223/59.

XX

PT New antisense compound for inhibiting the expression of signal
 PT transducer and activator of transcription 3 (STAT3) in cells or tissues
 PT and treating diseases or condition associated with STAT3, such as
 PT rheumatoid arthritis and cancer -

PS Example 2; Page 46; 104pp; English.

XX The present invention describes an antisense compound (1), 8 to 30
 CC nucleobases in length, that is targeted to a nucleic acid molecule
 CC encoding STAT3 (Signal Transducer and Activator of Transcription) and
 CC which inhibits the expression of it. (1) has antiinflammatory, and
 CC antirheumatic, cytostatic and immunostimulatory activities. (1) is used
 CC for inhibiting the expression of STAT3 in cells or tissues, treating
 CC an animal having a disease or condition associated with STAT3 or a
 CC human having a disease or condition characterised by a reduction in
 CC apoptosis, and inducing apoptosis in a cell. Diseases or conditions
 CC that are treated are rheumatoid arthritis, cancer of the breast,
 CC prostate, brain, head and/or neck, leukaemia, myeloma, melanoma or
 CC lymphoma. (1) can also be used for diagnostic methods in detecting and
 CC determining the role of STAT3 in various cell functions, physiological
 CC processes and conditions and for diagnosing the conditions associated
 CC with expression of STAT3. (1) can be used alone or with other drugs as
 CC an immunostimulant. (1) is used in sandwich and colourimetric assays,
 CC involving enzyme conjugation and radiolabeling and is used in
 CC diagnostic kits. AAC93150 encodes human STAT3 and AAC93231 encodes mouse
 CC STAT3 as given in the exemplification of the present invention. AAC93151
 CC to AAC93230 and AAC93232 to AAC93299 represent STAT3 phosphorothioate
 CC antisense oligonucleotides, and AAC93300 represents a mismatch control
 CC oligonucleotide which are used in example from the present invention.

SO Sequence 20 BP; 2 A; 8 C; 4 G; 6 T; 0 other.

Query Match Best Local Similarity 90.0%; Score 18; DB 21; Length 20;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCCAGCATCTGCTGCT 18
 | | | | | | | | | | | | | | | | | | | | | |
 DB 3 GCTCCAGCATCTGCTGCT 20

RESULT 6
 AAS96789
 ID AAS96789 standard; DNA; 20 BP.

XX AAS96789;

DT 26-FEB-2002 (first entry)

DE Human STAT3 antisense phosphorothioate oligodeoxynucleotide #22.

XX STAT3; human; signal transducer and activator of transcription; ss; STAT;
 KW antisense gene therapy; Fas-mediated apoptosis; inflammatory disease;
 KW autoimmune disease; rheumatoid arthritis; cancer; breast; prostate; head;
 KW neck; brain; leukaemia; myeloma; melanoma; lymphoma; apoptosis;
 KW antiinflammatory; immunosuppressive; antirheumatic; antiarthritic;
 KW cytosolic.

OS Homo sapiens.
 OS Synthetic.

PN US2001029250-A1.

PD 11-OCT-2001.

PP 11-JAN-2001; 2001US-0758881.

PR 08-APR-1999; 99US-0288461.

PR 06-APR-2000; 2000WO-US09054.

PA (KARR/) KARRAS J G

XX KARRAS JG;

XX WP1; 2002-009991/01.

DR Novel antisense compound useful for treating and diagnosing
 XX inflammatory diseases and cancers, is targeted to a nucleic acid
 PT molecule encoding signal transducer and activator of transcription
 PT proteins -

PS Example 2; Page 13; 21pp; English.

XX The invention relates to antisense compounds targeted to a nucleic acid
 CC molecule encoding a signal transducer and activator of transcription
 CC (STAT) protein, specifically STAT3, where the antisense compounds inhibit
 CC the expression of STAT3. The antisense sequences are useful for
 CC inhibiting the expression of STAT3 in cells or tissues, inducing
 CC Fas-mediated apoptosis in cells, and sensitising cells to apoptosis. They
 CC are also useful for treating an animal having a disease or condition
 CC associated with STAT3. These disorders include inflammatory or autoimmune
 CC disease, particularly rheumatoid arthritis, cancers, such as those of the
 CC breast, prostate, brain and head and neck and leukaemias, myelomas,
 CC melanomas and lymphomas. Also treatable are human diseases or conditions
 CC characterised by a reduction in apoptosis or an insensitivity to
 CC apoptotic signals. The sequences of the invention can be used in clinical
 CC research, for detecting and determining the role of STAT3 in various cell
 CC functions and physiological processes and for diagnosing conditions
 CC associated with the expression of STAT3. The sequences represent cDNA
 CC encoding human STAT3 and human STAT3 oligonucleotides.

SO Sequence 20 BP; 2 A; 8 C; 4 G; 6 T; 0 other;

Query Match Best Local Similarity 90.0%; Score 18; DB 24; Length 20;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCCAGCATCTGCTGCT 18
 | | | | | | | | | | | | | | | | | | | | | |
 DB 3 GCTCCAGCATCTGCTGCT 20

RESULT 7
 AA226192
 ID AA226192 standard; DNA; 21 BP.

XX AA226192;

DT 30-NOV-1999 (first entry)

DE Human polymorphic region 381.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;
 KW cell viability; loss of heterozygosity; precancerous condition; AS1;
 KW allele specific inhibitor; somatic cell; diagnosis; prevention;
 KW atherosclerotic plaque; premalignant metaplastic lesion; endometrios;
 KW dysplastic lesion; benign tumour; polycystic kidney disease; transplant;
 KW graft versus host disease; malignant cell removal; bone marrow; ss.

OS Homo sapiens.
 OS WO9841648-A2.

PN 24-SEP-1998.

PD 19-MAR-1998; 98WO-US05419.

PP 20-MAR-1997; 97US-0041057.

PR (VARI-) VARIAGENICS INC.

PA Housman D, Ledley FD, Stanton VP;

XX WP1; 1998-521232/44.

DR Identifying target genes for allele-specific drugs - used for

PT diagnosis, prevention and treatment of, e.g. cancers, atherosclerotic
 PT plaque, dysplastic lesions, endometriosis or graft versus host disease
 XX
 PS Disclosure; Figure 7; 605pp; English.

CC This invention describes a novel method for identifying an inhibitor
 CC potentially useful for treatment of cancer, where the inhibitor is
 CC active on a gene vital for cell growth or viability, and where the gene
 CC is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is
 CC used for preventing the development of cancer in a patient having a
 CC precancerous condition, by administering to the patient a first allele
 CC specific inhibitor (ASI) targeted to an allele of a first essential gene
 CC present in cells of the precancerous condition, where the normal somatic
 CC cells of the patient are heterozygous for the first gene, the inhibitor
 CC is active on at least one but less than all allelic forms of the gene
 CC present in a population and targets only one allelic form present in the
 CC normal somatic cells, and the first gene. The products and methods can
 CC be used in the diagnosis, prevention and treatment of LOH disorders,
 CC e.g. cancers, atherosclerotic plaques, premalignant metaplastic or
 CC dysplastic lesions, benign tumours, endometriosis, polycystic kidney
 CC disease, and graft versus host disease. The method can also be used to
 CC remove malignant cells from bone marrow transplants. AA25812-226825
 CC represent human polymorphic sites described in the method of the
 CC invention.

XX Sequence 21 BP; 2 A; 7 C; 7 G; 5 T; 0 other:

Query Match 76.0%; Score 15.2; DB 14; Length 21;
 Best Local Similarity 85.0%; Pred. No.: 3.4e+03;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GCTCCAGCATCTGCTGCTTC 20
 |||||
 DB 2 GCTCCAGCATCTGCTGCTTC 21

RESULT 8
 AA048649/C
 ID AA048649 standard; DNA; 24 BP.

XX
 AC AA048649;
 XX
 DT 25-MAR-2003 (updated)
 DT 22-FEB-1994 (first entry)

DE Control mRNA preproinsulin 3' antisense PCR primer.
 XX
 KM Polymerase chain reaction; amplification; detection;
 KM activation association transcript; mRNA phenotyping; exon;
 KM different; hybridisation; identification; ss.
 XX
 OS Synthetic.
 XX
 PN MO9317043-A1.
 XX
 PD 02-SEP-1993.
 XX
 PF 01-MAR-1993; 93WO-US01768.
 XX
 PR 28-FEB-1992; 92US-0843731.
 XX

PA (BETH-) BETH ISRAEL HOSPITAL ASSOC.
 PA (BGHM) BRIGHAM & WOMEN'S HOSPITAL.
 XX
 PI Libermann T, Rubin-Kelley VE, Strom T;
 XX
 DR WPI; 1993-288360/36.
 XX
 PT New protein with immunosuppressive activity - obt'd. from cloned
 PT anergic T-cells, used for treating auto-immune diseases and
 PT transplant rejection
 XX
 PS Disclosure; Page 43; 67pp; English.

XX
 CC The sequence is that of a preproinsulin 3' antisense PCR primer
 CC (nucleotides 1931-1907) which was used as a control in mRNA phenotyping
 CC as part of the identification of activation associated transcripts.
 CC The PCR was performed as part of the isolation of DNA encoding a novel
 CC immunosuppressive protein. This nucleic acid can be used to alter
 CC the effect of IL-2 or IL-4 on their receptor-bearing cells in a mammal.
 CC (Updated on 25-MAR-2003 to correct PN field.)
 XX

SO Sequence 24 BP; 5 A; 3 C; 12 G; 4 T; 0 other:

Query Match 76.0%; Score 15.2; DB 14; Length 24;
 Best Local Similarity 85.0%; Pred. No.: 3.4e+03;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GCTCCAGCATCTGCTGCTTC 20
 |||||
 DB 24 GCTCCAGCATCTGCTGCTTC 5

RESULT 9
 ABX89728/C
 ID ABX89728 standard; DNA; 24 BP.

XX
 AC ABX89728;
 XX
 DT 08-MAY-2003 (first entry)
 DT
 XX

DE Interleukin 2.15 suppression factor associated polynucleotide #30.
 XX
 KM Human; ds; transplanted tissue rejection inhibition; multiple sclerosis;
 KM diabetes; systemic lupus erythematosus; rheumatoid arthritis; IL-2.15;
 KM interleukin 2.15 suppression factor; local immunosuppression;
 KM destructive autoimmune response inhibition; gene therapy;
 KM allograft rejection inhibition; xenograft rejection inhibition;
 KM interleukin 2 modulation; interleukin 4 modulation; heart transplant;
 KM kidney transplant; liver transplant; lung transplant; bone transplant;
 KM skin transplant; cellular transplant; islet transplant.
 XX
 OS Homo sapiens.
 XX
 PN US2002164311-A1.
 XX
 PD 07-NOV-2002.
 XX
 PF 12-MAR-2001; 2001US-0804717.
 XX
 PR 11-JUL-1994; 94US-0273402.
 PR 28-FEB-1992; 92US-0843731.
 PR 01-MAR-1993; 93US-0024569.
 XX

PA (BETH-) BETH ISRAEL HOSPITAL ASSOC.
 XX
 PI Storm TB, Libermann T;
 XX
 DR WPI; 2003-246664/25.
 XX
 PT Inhibiting rejection of transplanted tissue, comprises introducing DNA,
 PT encoding immunosuppressive polypeptide or glycosidase into the cell, so
 PT that the polypeptide is expressed close enough to the tissue to inhibit
 PT rejection
 XX
 PS Disclosure; Page 24; 45pp; English.
 XX

CC The invention relates to a method of inhibiting rejection of transplanted
 CC tissue in a mammal which comprises introducing into a cell, either in
 CC vivo or ex vivo, DNA encoding immunosuppressive polypeptide or
 CC glycosidase, and if it is ex vivo, transplanting the cell into mammal,
 CC where expression of polypeptide is regulated by DNA, so that the
 CC polypeptide is expressed close enough to transplanted tissue to inhibit
 CC rejection. The method also involves inhibiting a destructive autoimmune
 CC response, by introducing into a cell, either in vivo or ex vivo, DNA
 CC encoding an immunosuppressive polypeptide. The polynucleotide is useful

CC for altering the effect of interleukin 2 (IL-2)/ interleukin 4 (IL-4) on
 CC an IL-2/IL-4 receptor-bearing cell in a mammal, by transfecting the cell
 CC with the polynucleotide, so that cell expresses the protein. The method
 CC is useful for inhibiting rejection of a transplanted tissue and also for
 CC inhibiting destructive autoimmune response in a mammal, where the mammal
 CC is a mammal with rheumatoid arthritis, has diabetes caused by an
 CC autoimmune response, is presymptomatic with systemic lupus erythematosus,
 CC or with multiple sclerosis. The method is also useful for inhibiting
 CC rejection of both allografts and xenografts e.g. transplanted organs such
 CC as heart, kidney, liver and lung and tissues such as bone and skin or
 CC cellular transplants e.g. islets and also for decreasing autoimmune
 CC damage to the above mentioned organs. The method allows strong local
 CC immunosuppression without the side effects associated with general
 CC immunosuppressive methods. The present sequence represents an interleukin
 CC 2.15 (IL-2.15) suppression factor associated polynucleotide.
 CC Note: The DNA sequence presented is not disclosed in the specification
 CC but is shown in the sequence listing.

SO Sequence 24 BP; 5 A; 3 C; 12 G; 4 T; 0 other;

Query Match 76.0%; Score 15.2; DB 25; Length 24;

Best Local Similarity 85.0%; Pred. No. 3.4e+03;

Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GCTCCAGCATCTGCTGCTTC 20

DB 24 GCACGACATCTGCTGCTTC 5

RESULT 10

ABN88070/C

ID ABN88070 standard; DNA; 19 BP

XX ABN88070;

DT 12-AUG-2002 (first entry)

DE Caenorhabditis elegans related dsRNA2 upstream primer.

XX Caenorhabditis elegans; C. elegans; reproduction; development;

KW anti-infective; nematode; plant protectant; gene therapy; infection;

KW calabar swelling; lymphatic filariasis; elephantiasis; onchocercoma;

KW primer; ss.

XX Caenorhabditis elegans.

OS Synthetic.

XX WU200238600-A2.

XX 16-MAY-2002.

XX 09-NOV-2001; 2001WO-EP13038.

XX 09-NOV-2000; 2000US-246721P.

XX (CENT-) GENIX BIOSCIENCE GMBH.

PI Echeverri C, Goency P, Hyman A, Coulson A, Jones S, Oegema K;

PI Kirkham M;

XX WPI; 2002-471547/50.

XX New Caenorhabditis elegans genes required for viability, growth or

PT reproduction of nematodes, useful for diagnosing or treating e.g.

PT onchocercoma or elephantiasis in humans or animals, or plant diseases

PT caused by e.g. Heterodera

XX Example 2; Page 28; 35pp; English.

XX The present invention describes an isolated nucleic acid molecule (I),

CC which encodes a polypeptide (II) required for the viability and/or growth

CC and/or reproduction of nematodes (Caenorhabditis elegans), or its

CC fragment. (I) and (II) have nematocidal and plant protectant activities,

CC and can be used in gene therapy. (1) is useful for producing (11)

SO Sequence 19 BP; 6 A; 3 C; 7 G; 3 T; 0 other;

Query Match 74.0%; Score 14.8; DB 24; Length 19;

Best Local Similarity 88.9%; Pred. No. 4.9e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 3 TCACGATCTGCTGCTTC 20

DB 18 TCACGATCTGCTGCTTC 1

RESULT 11

AAZ26191

ID AAZ26191 standard; DNA; 21 BP.

XX AAZ26191;

DT 30-NOV-1999 (first entry)

DE Human polymorphic region 380.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;

KW cell viability; loss of heterozygosity; precancerous condition; AS1;

KW allele specific inhibitor; somatic cell; diagnosis; prevention;

KW atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;

KW dysplastic lesion; benign tumour; polycystic kidney disease; transplant;

KW graft versus host disease; malignant cell removal; bone marrow; ss.

XX Homo sapiens.

XX W09841648-A2.

XX 24-SEP-1998.

XX 19-MAR-1998; 98WO-US05419.

XX 20-MAR-1997; 97US-0041057.

XX (VARI-) VARIAGENICS INC.

XX Housman D, Ledley FD, Stanton VP;

XX WPI; 1998-521232/44.

XX Identifying target genes for allele-specific drugs - used for

PT diagnosis; prevention and treatment of, e.g. cancers, atherosclerotic

PT plaque, dysplastic lesions, endometriosis or graft versus host disease

PS Disclosure; Figure 7; 605pp; English.

XX This invention describes a novel method for identifying an inhibitor

CC potentially useful for treatment of cancer, where the inhibitor is

CC active on a gene vital for cell growth or viability, and where the gene

CC is subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is

CC used for preventing the development of cancer in a patient having a

CC precancerous condition, by administering to the patient a first allele
CC specific inhibitor (ASI) targeted to an allele of a first essential gene
CC present in cells of the precancerous condition, where the normal somatic
CC cells of the patient are heterozygous for the first gene, the inhibitor
CC is active on at least one but less than all allelic forms of the gene
CC present in a population and targets only one allelic form present in the
CC normal somatic cells, and the first gene. The products and methods can
CC be used in the diagnosis, prevention and treatment of IOH disorders,
CC e.g. cancers, atherosclerotic plaques, premalignant metaplastic or
CC dysplastic lesions, benign tumours, endometriosis, polycystic kidney
CC disease, and graft versus host disease. The method can also be used to
CC remove malignant cells from bone marrow transplants. AAZ5812-226825
CC represent human polymorphic sites described in the method of the
CC invention.

SQ Sequence 21 BP; 2 A; 8 C; 6 G; 5 T; 0 other:

Query Match 74.0%; Score 14.8; DB 19; Length 21;
Best local Similarity 88.9%; Pred. No. 5e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

YY 1 GCTCCAGCATCTGCTGCT 18
DB 4 GCTCCAGCATCTGCTGCT 21

RESULT 12
ABS58313/c
ID ABS58313 standard; DNN: 20 BP.
XX
AC ABS58313;
XX
DT 21-FEB-2003 (first entry)
XX
DE Silkworm spider dragline silk gene (MasP1) specific PCR primer #1.
XX
KW Silkworm; primer; ss; spider drag-line; silk; fibroin; PCR;
XX light chain; L chain; MasP1.
XX
OS Bombyx mori.
XX
PN US2002137211-A1.
XX
PD 26-SEP-2002.
XX
PF 04-OCT-2001; 2001US-0269852.
XX
PR 02-JAN-2001; 2001CN-0106406.
XX
PA (UNIST-) UNIV SICHUAN TIANYOU BIOLOGIC ENG CO LTD.
XX
PI Liu T, Liu H, Li W, Zhao L;
XX
DR WPI; 2003-110604/10.
XX
PT Establishing expression systems of spider drag-line silk genes in
PT silkworms, by fusing silkworm fibroin L-chain cDNA and its promoter
PT upstream of spider drag-line silk gene cDNA to direct drag-line protein
PT expression and secretion -
XX
PS Example 1; Page 2; 19pp; English.

CC This invention relates to a novel method for establishing an expression
CC system of spider drag-line silk genes in silkworm by fusing the silkworm
CC fibroin L-chain cDNA and its promoter upstream of the spider drag-line
CC silk gene cDNA, ligating the fused gene with a reporter gene and
CC inserting into a transposon to obtain a recombinant transposon which
CC can be used to transform a silkworm egg. The method of the invention is
CC useful for establishing an expression system of spider drag-line silk
CC gene in B. mori. The spider dragline silk gene product accounts for 30%
CC of total silk proteins. This method provides a rate of transformation of
CC about 0.5-1%. The present sequence represents a PCR primer used to
CC amplify the silkworm spider dragline silk gene (MasP1) sequence used in

CC the method of the invention.
XX
SQ Sequence 20 BP; 5 A; 5 C; 9 G; 1 T; 0 other:

Query Match 71.0%; Score 14.2; DB 25; Length 20;
Best local Similarity 84.2%; Pred. No. 8.7e+03;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

YY 2 CTCACGACGTGCTGCTTC 20
DB 19 CTCACGACGTGCTGCTGC 1

RESULT 13
AAZ34203
ID AAZ34203 standard; DNN: 24 BP.
XX
AC AAZ34203;
XX
DT 07-DEC-1999 (first entry)
XX
DE Human PRO865 PCR reverse primer 2.
XX
KW Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;
KW probe; blood coagulation disorder; cancer; cellular adhesion disorder;
KW secreted protein; transmembrane protein; ss.
XX
OS Synthetic.
XX
PN Homo sapiens.
XX
PD WO9946281-A2.
XX
DT 16-SEP-1999.
XX
PE 08-MAR-1999; 99WO-US05028.
XX
PF 10-MAR-1998; 98US-0077450.
XX
PR 11-MAR-1998; 98US-0077632.
XX
PR 11-MAR-1998; 98US-0077641.
XX
PR 11-MAR-1998; 98US-0077649.
XX
PR 12-MAR-1998; 98US-0077791.
XX
PR 13-MAR-1998; 98US-0078004.
XX
PR 17-MAR-1998; 98US-0040220.
XX
PR 20-MAR-1998; 98US-0078886.
XX
PR 20-MAR-1998; 98US-0078910.
XX
PR 20-MAR-1998; 98US-0078936.
XX
PR 20-MAR-1998; 98US-0078939.
XX
PR 25-MAR-1998; 98US-0079294.
XX
PR 26-MAR-1998; 98US-0079656.
XX
PR 27-MAR-1998; 98US-0079663.
XX
PR 27-MAR-1998; 98US-0079664.
XX
PR 27-MAR-1998; 98US-0079689.
XX
PR 27-MAR-1998; 98US-0079728.
XX
PR 27-MAR-1998; 98US-0079786.
XX
PR 30-MAR-1998; 98US-0079920.
XX
PR 30-MAR-1998; 98US-0079923.
XX
PR 31-MAR-1998; 98US-0080105.
XX
PR 31-MAR-1998; 98US-0080107.
XX
PR 31-MAR-1998; 98US-0080165.
XX
PR 31-MAR-1998; 98US-0080194.
XX
PR 01-APR-1998; 98US-0080327.
XX
PR 01-APR-1998; 98US-0080328.
XX
PR 01-APR-1998; 98US-0080333.
XX
PR 01-APR-1998; 98US-0080334.
XX
PR 08-APR-1998; 98US-0081049.
XX
PR 08-APR-1998; 98US-0081070.
XX
PR 08-APR-1998; 98US-0081071.
XX
PR 09-APR-1998; 98US-0081195.
XX
PR 09-APR-1998; 98US-0081203.
XX
PR 15-APR-1998; 98US-0081229.
XX
PR 15-APR-1998; 98US-0081817.
XX
PR 15-APR-1998; 98US-0081838.
XX
PR 15-APR-1998; 98US-0081952.

ER 15-APR-1998; 9805-0081955.
 PR 21-APR-1998; 9805-0082568.
 PR 21-APR-1998; 9805-0082569.
 PR 22-APR-1998; 9805-0082700.
 PR 22-APR-1998; 9805-0082704.
 PR 22-APR-1998; 9805-0082804.
 PR 23-APR-1998; 9805-0082767.
 PR 23-APR-1998; 9805-0082796.
 PR 27-APR-1998; 9805-0083336.
 PR 28-APR-1998; 9805-0083322.
 PR 29-APR-1998; 9805-0083495.
 PR 29-APR-1998; 9805-0083496.
 PR 29-APR-1998; 9805-0083499.
 PR 29-APR-1998; 9805-0083500.
 PR 29-APR-1998; 9805-0083545.
 PR 29-APR-1998; 9805-0083554.
 PR 29-APR-1998; 9805-0083558.
 PR 30-APR-1998; 9805-0083559.
 PR 30-APR-1998; 9805-0083742.
 PR 05-MAY-1998; 9805-0084366.
 PR 06-MAY-1998; 9805-0084414.
 PR 07-MAY-1998; 9805-0084441.
 PR 07-MAY-1998; 9805-0084598.
 PR 07-MAY-1998; 9805-0084600.
 PR 07-MAY-1998; 9805-0084627.
 PR 07-MAY-1998; 9805-0084637.
 PR 07-MAY-1998; 9805-0084639.
 PR 07-MAY-1998; 9805-0084640.
 PR 07-MAY-1998; 9805-0084643.
 PR 13-MAY-1998; 9805-0085323.
 PR 13-MAY-1998; 9805-0085338.
 PR 13-MAY-1998; 9805-0085339.
 PR 15-MAY-1998; 9805-0085573.
 PR 15-MAY-1998; 9805-0085579.
 PR 15-MAY-1998; 9805-0085580.
 PR 15-MAY-1998; 9805-0085582.
 PR 15-MAY-1998; 9805-0085689.
 PR 15-MAY-1998; 9805-0085697.
 PR 15-MAY-1998; 9805-0085700.
 PR 15-MAY-1998; 9805-0085704.
 PR 18-MAY-1998; 9805-0086023.
 PR 22-MAY-1998; 9805-0086392.
 PR 22-MAY-1998; 9805-0086414.
 PR 22-MAY-1998; 9805-0086430.
 PR 22-MAY-1998; 9805-0086486.
 PR 28-MAY-1998; 9805-0087098.
 PR 28-MAY-1998; 9805-0087106.
 PR 28-MAY-1998; 9805-0087208.
 PR 30-JUL-1998; 9805-0094651.
 PR 11-SEP-1998; 9805-0100038.
 PA (GETH) GENENTECH INC.
 PI Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
 XX WPI, 1999-551358/46.
 DR New secreted and transmembrane polypeptides and their polynucleotides,
 PT useful for treating blood coagulation disorders, cancers and cellular
 PT adhesion disorders.
 XX
 XX Example 56; page 229; 530pp; English.
 CC The present invention describes secreted and transmembrane polypeptides
 CC and their polynucleotides. The nucleotide sequences are useful as
 CC sources of probes, primers, for chromosome mapping, and for generation
 CC of antisense sequences. They can also be used to create transgenic
 CC animals. The proteins can be used to treat a variety of diseases and
 CC disorders, depending on their function. Diseases that may be treated
 CC include blood coagulation disorders, cancers and cellular adhesion
 CC disorders. They may also be used to raise antibodies. AAZ33891 to
 CC AAZ34338, and AA41685 to AA41774 represent polynucleotide and

CC polypeptide sequence given in the exemplification of the present
 CC invention.
 CC
 SQ Sequence 24 BP; 6 A, 9 C, 4 G, 5 T, 0 other;
 Query Match 71 0%, Score 14.2, FR 20, Length 24;
 Best local Similarity 84.2%; Pred. No. 8.9e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 QY 2 CTCACGACATCTCTCTTC 20
 Db 6 CTCACGACATCTCTCTTC 24
 RESULT 14
 AAC78819
 ID AAC78819 standard; DNA; 24 BP.
 AC AAC78819;
 XX
 DT 08-FEB-2001 (first entry)
 XX
 DE Human PRO541 reverse PCR primer SEQ ID NO:367.
 XX
 KW Human; secreted protein; transmembrane protein; PRO, EST, cytosolic;
 KW expressed sequence tag; detection; cancer; PCR primer; probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200053756-A2.
 PD 14-SEP-2000.
 XX
 PF 18-FEB-2000; 2000WO-US04341.
 XX
 PR 08-MAR-1999; 99WO-US05028.
 PR 12-MAR-1999; 99WO-US05028.
 PR 29-MAR-1999; 99WO-US05028.
 PR 21-APR-1999; 99WO-US05028.
 PR 28-APR-1999; 99WO-US05028.
 PR 14-MAY-1999; 99WO-US05028.
 PR 23-JUN-1999; 99WO-US05028.
 PR 26-JUL-1999; 99WO-US05028.
 PR 29-OCT-1999; 99WO-US05028.
 PR 30-NOV-1999; 99WO-US05028.
 PR 02-DEC-1999; 99WO-US05028.
 PR 16-DEC-1999; 99WO-US05028.
 PR 30-DEC-1999; 99WO-US05028.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 XX
 PA (GETH) GENENTECH INC.
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DJ;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AJ, Hillan KJ;
 PI Kijavkin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;
 PI Shelton DL, Stewart RA, Tumas D, Williams PM, Wood WI;
 XX
 DR WPI, 2000-611443/58.
 XX
 PT Novel PRO polypeptides and polynucleotides used in detection methods,
 PT to target bioactive molecules to specific cells, and to modulate
 PT cellular activities.
 XX
 PS Example 56; page 286; 636pp; English.
 CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed
 CC sequence tag) sequences which encode secreted or transmembrane PRO
 CC polypeptides. The PRO polynucleotides and polypeptides have cytosolic

CC activity. The polynucleotides and polypeptides can be used for detecting
 CC the presence of PRO polypeptides in samples, for linking bioactive
 CC molecules to cells and for modulating biological activities of cells,
 CC using the polypeptides for specific targeting. The polypeptide targeting
 CC can be used to kill the target cells, e.g. for the treatment of cancers.
 CC The polypeptide pairs provide specific targeting of bioactive molecules
 CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
 CC the isolation of the PRO polynucleotide sequences.

XX
 SQ Sequence 24 BP. 6 A. 9 C. 4 G. 5 T. 0 other:

Query Match 71.0%; Score 14.2; DB 21; Length 24;
 Best Local Similarity 84.2%; Pred. No. 8.9e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

DY 2 CTCACGATCTGTGTTT 20
 DB 6 CTCACGATCTGTGTTT 24

RESULT 15
 ABX92575
 ID ABX92575 standard; DNA: 24 BP.
 XX
 AC ABX92575;
 XX
 DT 08-MAY-2003 (first entry)
 XX
 DE Human PRO DNA PCR primer SEQ ID NO 367.
 XX
 KW Human; PRO polypeptide; secreted and transmembrane protein;
 KW immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
 KW cardiac insufficiency; nervous system disorder; kidney disorder;
 KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
 KW genetic disorder; cytostatic; antidiabetic; antinflammatory;
 KW antiarthritic; anti-tumour; vulnerrary; antinaemic; dermatological;
 KW cardiac; PCR; primer; ss.
 XX
 OS Homo sapiens.
 PN US2002169284-A1.
 XX
 PD 14-NOV-2002.
 XX
 PE 16-OCT-2001; 2001US-0478697.
 XX
 PR 07-OCT-1998; 98WO-US21141.
 PR 20-NOV-1998; 98WO-US24855.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12352.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00377.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.

PR 28-JUL-2000; 2000WO-US20710.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 22-MAR-2001; 2001WO-US09552.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 17-OCT-1997; 97US-062250P.
 PR 03-NOV-1997; 97US-064249P.
 PR 13-NOV-1997; 97US-065311P.
 PR 21-NOV-1997; 97US-066364P.
 PR 10-MAR-1998; 98US-077450P.
 PR 11-MAR-1998; 98US-077632P.
 PR 11-MAR-1998; 98US-077641P.
 PR 11-MAR-1998; 98US-077649P.
 PR 12-MAR-1998; 98US-077791P.
 PR 13-MAR-1998; 98US-078004P.
 PR 20-MAR-1998; 98US-078886P.
 PR 20-MAR-1998; 98US-078910P.
 PR 20-MAR-1998; 98US-078936P.
 PR 20-MAR-1998; 98US-078939P.
 PR 25-MAR-1998; 98US-079294P.
 PR 26-MAR-1998; 98US-079656P.
 PR 27-MAR-1998; 98US-079663P.
 PR 27-MAR-1998; 98US-079664P.
 PR 27-MAR-1998; 98US-079689P.
 PR 27-MAR-1998; 98US-079728P.
 PR 27-MAR-1998; 98US-079786P.
 PR 30-MAR-1998; 98US-079920P.
 PR 30-MAR-1998; 98US-079923P.
 PR 26-MAY-1981; 81US-0267213.
 PR 17-MAR-1998; 98US-0040220.
 PR 26-JUN-1998; 98US-0105413.
 PR 07-OCT-1998; 98US-0168978.
 PR 02-NOV-1998; 98US-0184216.
 PR 06-NOV-1998; 98US-0187368.
 PR 07-DEC-1998; 98US-0202054.
 PR 22-DEC-1998; 98US-0218517.
 PR 05-MAR-1999; 99US-0254465.
 PR 10-MAR-1999; 99US-0265686.
 PR 12-APR-1999; 99US-0284291.
 PR 14-MAY-1999; 99US-0311832.
 PR 14-MAY-1999; 99US-0380137.
 PR 25-AUG-1999; 99US-0380138.
 PR 25-AUG-1999; 99US-0380142.
 PR 08-NOV-2000; 2000US-0709248.
 PR 27-NOV-2000; 2000US-0723749.
 PR 20-DEC-2000; 2000US-0747259.
 PR 22-MAR-2001; 2001US-0816744.
 PR 22-MAR-2001; 2001US-0816920.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 01-JUN-2001; 2001US-0872035.
 PR 05-JUN-2001; 2001US-0874503.
 PR 14-JUN-2001; 2001US-0882636.
 PR 19-JUN-2001; 2001US-0886342.
 PR 30-JUL-2001; 2001US-0918585.

XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi A, Baker KP, Bolstein D, Desnoyers L, Eaton D;
 PI Firsiroti N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PU, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kiljavan IU, Kuo SS, Nediet MA, Pan J, Pount NF, Roy MA;
 PI Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
 DR WPI: 2003-288163/28.
 XX
 PT Novel secreted and transmembrane polypeptides and polynucleotides

PT encoding them useful for treating cancer, kidney diseases, bone,
 PT cartilage disorders and immune deficiencies

XX
 PS Example 56; Page 158; 459pp; English.

CC The present invention relates to the isolation of novel human PRO
 CC polypeptides, and the polynucleotide sequences encoding them. The
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for
 CC linking bioactive molecules to cells expressing PRO polypeptides,
 CC for modulating biological activities of cells expressing PRO
 CC polypeptides, and for identifying agonists or antagonists. The
 CC bioactive molecule maybe a toxin, radiolabel or antibody, and causes
 CC apoptosis or death of the cell. The PRO polypeptides are useful for
 CC treating immune disorders, diabetes or hyper- or hypo-insulinaemia,
 CC cardiac insufficiency, nervous system disorders, kidney disorders,
 CC bone and cartilage disorders or arthritis, tumours, and wound healing.
 CC The polynucleotide sequences encoding PRO polypeptides are useful as
 CC hybridisation probes, in chromosome and gene mapping, in the generation
 CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for
 CC generating transgenic animals or knockout animals, for the genetic
 CC analysis of individuals with genetic disorders, and in gene therapy.
 CC The present sequence represents a PCR primer used in the examples
 CC of the present invention.
 CC Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at
 CC seqdata.uspto.gov/psipdsidentlity.html.

XX
 SQ Sequence 24 BP, 6 A, 9 C, 4 G, 5 T; 0 other;

Query Match

Best local Similarity 71.0%; Score 14.2; DB 25, Length 24,
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 CTCGAGCATCTGCTGCTTC 20
 ||||||||| |||||
 DB 6 CTCGAGCATCTGCTGCTTC 24

Search completed: August 19, 2003, 20:22:06
 Job time : 248 secs